

Amendment under Ex parte Quayle

Applicant: Leo Spychalla

Serial No.: 10/725,232

Filed: December 1, 2003

Docket No.: 10412US01

Title: DATA STORAGE CARTRIDGE WITH HARD DRIVE AND DOOR

IN THE CLAIMS

1. (Previously Presented) A data storage cartridge comprising:
 - a housing including an interior surface that defines an access window;
 - a door coupled to the housing and being configured to selectively cover the access window; and
 - a hard drive maintained within the housing and configured to be contacted from a point external to the data storage cartridge via the access window;
 - wherein the door is positioned between the interior surface and the hard drive.
2. (Cancelled)
3. (Currently Amended) The data storage cartridge of claim 3([2]), wherein the door is rotatably coupled to the housing, the door being configured to rotate between a closed position and an open position, further wherein when in the closed position, the door covers the access window, and when in the open position, the door uncovers the access window.
4. (Original) The data storage cartridge of claim 1, wherein the door is maintained within the housing.
5. (Original) The data storage cartridge of claim 1, wherein the hard drive includes at least one connection point, the hard drive being positioned within the housing such that the at least one connection point is aligned with the access window.
6. (Original) The data storage cartridge of claim 1, wherein the housing is configured to be received by a tape drive emulator, and further wherein the data storage cartridge is

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configured such that reception of the data storage cartridge by the tape drive emulator actuates the door to uncover the access window.

7. (Original) The data storage cartridge of claim 6, wherein the housing defines a pin reception slot configured to guide an actuator pin of the tape drive emulator towards the door, the actuator pin being configured to contact and actuate the door to uncover the access window.

8. (Original) The data storage cartridge of claim 1, wherein the door is biased to a closed position covering the access window.

9. (Cancelled)

10. (Original) The data storage cartridge of claim 1, wherein the data storage cartridge is configured to be selectively received by a tape drive emulator, and removal of the data storage cartridge from the tape drive emulator actuates the door to cover the access window.

11. (Cancelled)

12. (Cancelled)

13. (Original) The data storage cartridge of claim 1, wherein the housing includes a first housing section defining a interior surface and a first wall extending from the interior surface, the interior surface defining the access window adjacent the first wall.

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14. (Original) The data storage cartridge of claim 13, wherein the door includes a first edge configured to at least partially interact with the first wall when the door covers the access window.

15. (Original) The data storage cartridge of claim 14, wherein the first edge includes an angled portion configured to provide additional clearance of the access window when the door uncovers the access window.

16. (Original) A method of accessing a hard drive stored within a data storage cartridge, the method comprising:

providing a data storage cartridge including:

a housing defining an access window,

a door rotatably mounted to the housing and being configured to selectively cover the access window, and

a hard drive maintained within the housing;

at least partially inserting the data storage tape cartridge into a tape drive emulator and transitioning the door to open the access window; and

accessing the hard drive through the access window with the tape drive emulator.

17. (Original) The method of claim 16, wherein the hard drive includes at least one connection point, and accessing the hard drive through the access window includes connecting the tape drive emulator to the at least one connection point.

18. (Original) The method of claim 16, wherein the step of transitioning the door to open the access window includes pivoting the door away from the access window.

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19. (Original) The method of claim 16, wherein the step of transitioning the door to open the access window includes applying an external force to the door having sufficient magnitude to overcome a bias of the door to cover the access window.
20. (Original) The method of claim 16, further comprising:
removing the data storage tape cartridge from the tape drive emulator and transitioning the door to close the access window.
21. (Previously Presented) A drive for receiving a data storage cartridge, the data storage cartridge housing a hard drive and having a movable door for selectively allowing access to at least one connection point of the hard drive, the drive including:
a socket for selectively receiving the data storage cartridge;
a connector positioned within the socket for interacting with the at least one connection point of the hard drive; and
an actuator pin positioned within the socket and configured to interact with and move the door of the data storage cartridge from a closed position to an open position when the data storage cartridge is inserted into the socket.
22. (Previously Presented) The drive of claim 21, wherein when the door of the data storage cartridge is in the open position, the connector is configured to selectively interact with the at least one connection point of the hard drive.
23. (Previously Presented) The drive of claim 21, wherein the door of the data storage cartridge is biased in a closed position, and upon insertion of the data storage cartridge into the socket, the actuator pin is configured to exert an external force to the door of the data storage cartridge to overcome the bias of the door and to move the door to the open position.

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24. (Previously Presented) The drive of claim 23, wherein upon removal of the data storage cartridge from the socket, the actuator pin is configured to remove the external force exerted on the door of the data storage cartridge allowing the door to move to the closed position, which prevents the connector from accessing the at least one connection point of the hard drive.

25. (Previously Presented) The drive of claim 21, wherein the actuator pin is stationary within the drive.

26. (Previously Presented) The drive of claim 21, wherein the drive is a tape drive emulator.

27. (Previously Presented) The data storage cartridge of claim 1, wherein the door is formed as a single member configured to independently cover an entirety of the access window.

28. (Previously Presented) The data storage cartridge of claim 1, wherein the housing includes a housing planar member and the access window is defined in the housing planar member, and further wherein the door defines a door planar member positioned in a substantially parallel plane as the housing planar member.

29. (Previously Presented) The data storage cartridge of claim 1, wherein access window is defined in a first plane and the door is rotated within a second plane substantially parallel to the first plane.

30. (Previously Presented) The method of claim 16, wherein the access window is defined in a first plane, and the step of transitioning the door to open the access window includes

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pivoting the door away from the access window within a second plane substantially parallel to the first plane.

31. (Previously Presented) The drive of claim 21, wherein the actuator pin is an elongated pin extending in a first direction substantially perpendicular to a second direction in which the cartridge is inserted into the socket.